0030380Duplex - ANTISTAIN

Revision nr. 6

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Code: 003030Duplex ANTISTAIN ANTISTAIN Product name chemical name and synonym ANTISTAIN ANTISTAIN I.2. Relevant identified uses of the substance or mixture and uses advised against Sector of use: SU22 – Professional uses SU22 – Professional uses SU21 – Consumer uses Jase advised against. Avoid use: without use which involves applications in non-ventilated indoor environments or for airless spray applications without the use of PPE. Intended use hydro-oil-repellent protective solvent based product for absorbent stone materials I.3. Details of the supplier of the safety data sheet Full address WARBEC S.R.L. VIA CROCE ROSSA 5/i District and Country Via dardress of the competent person esponsible for the Safety Data Sheet info@marbec.it I.4. Emergency telephone number info@marbec.it		
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	SECTION 2. Hazards iden	tification
I. Classification of the substance or mixture		
	.1. Classification of the substance o	r mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2015/830. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.



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Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics CAS -	50≤x< 100	Flam. Liq. 3 H226, A	sp. Tox. 1 H304, STOT SE 3 H336, EUH066	
EC 919-857-5				
INDEX -				
Reg. no. 01-2119463258-33				
N-BUTYL ACETATE				
CAS 123-86-4	10 ≤ x < 20	Flam. Liq. 3 H226, S	TOT SE 3 H336, EUH066	
EC 204-658-1				
INDEX 607-025-00-1				
Reg. no. 01-2119485493-29				
bis (2-ethylhexyl) adipate				
CAS 103-23-1 CE 203-090-1	1 ≤ x < 3			
INDEX -				
2-ethylanthraquinone				
CAS 84-51-5		0 < x < 0,005	Flam. Liq. 3 H226, Asp. Tox. 1 H304, STOT SE 3 H336, EUH066	
CE 201-535-4				
INDEX -				

The full wording of hazard (H) phrases is given in section 16 of the sheet.

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics "

NOTE: The dearomatized white spirit present in this product is a complex UVCB (PrC3), CAS N.A., EC 919-857-5 n. INDEX: N.A. ("C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatic hydrocarbons.) A complex and variable combination of paraffinic, cyclic and aromatic hydrocarbons having carbon numbers predominantly in the range of C9 through C11 and boiling in range 130 ° C - 210 ° C. Some manufacturers provide the following related CAS: 64742-48-9.

Applicable Note P of Annex 1. Concentration of benzene <0.1% by weight.

SECTION 4. First aid measures

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

EYES: wash immediately and abundantly with water for at least 15 minutes. Remove contact lenses, if present, if the situation allows to carry out the operation with ease. Continue to rinse. Consult a doctor immediately.

SKIN: wash immediately and abundantly with soap and water. Take off contaminated clothing. In case of irritation, swelling or redness, consult a specialist doctor. Wash the contaminated garments before reusing them. For thermal burns, cool the injured part. Keep the burned area under running cold water for at least five minutes or until the pain disappears. Avoid a general hypothermia. During the use of high pressure equipment, a product injection can occur even without apparent external injury. In this case, immediately transfer the injured person to the hospital. Do not wait for the symptoms to appear.

INHALATION: In case of difficult breathing, bring the injured person into the open air and keep it in a comfortable position for breathing. If the injured person is unconscious and does not breathe, check the absence of obstacles to breathing and perform artificial respiration by specialized personnel. If necessary, carry out an external cardiac massage and consult a doctor. If the injured person is breathing, keep him in a safe side position. Administer oxygen if necessary.

INGESTION: do not induce vomiting to avoid the risk of aspiration. Immediately transport the injured person to the hospital. Do not wait for the symptoms

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to appear. In the case of spontaneous vomiting, keep the head down to avoid the risk of aspiration of vomiting into the lungs.

4.2. Most important symptoms and effects, both acute and delayed

There is no specific information on symptoms and effects caused by the product.

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Contact with eyes may cause irritation. Contact with the skin: redness. Repeated exposure may cause skin dryness or cracking. Inhalation: headache, dizziness, somnolence, nausea and other effects on the central nervous system. Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause depression in the central nervous system. If swallowed, the material can be aspirated into the lungs and cause chemical pneumonitis.

4.3. Indication of any immediate medical attention and special treatment needed

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics If accidentally ingested, the product may enter the lungs due to its low viscosity and cause the rapid development of severe lung lesions (keep under medical supervision for 48 hours). Notes to the doctor: Treat symptomatically.

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool closed containers exposed to flames to prevent explosions.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing, such as an open circuit compressed air breathing apparatus (EN 137), flame retardant suit (EN469), flame retardant gloves (EN 659) and boots for the Fire Brigade (HO A29 or A30).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

Send away individuals who are not suitably equipped. Use explosion-proof equipment. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

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6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. If the product is flammable, use an explosion-proof device. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material. Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Use appropriate personal protective equipment if necessary. Avoid contact with skin and eyes. Do not swallow. Avoid breathing vapors. Do not release into the environment. Make sure that appropriate cleaning measures are taken (housekeeping). Contaminated material must not accumulate in the workplace and must never be stored in a pocket. Keep away from food and drink. Do not eat, drink or smoke while using the product. Wash hands thoroughly after handling. Do not reuse contaminated clothing.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store in a well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

Keep away from strong oxidants and reducing agents. Keep away from food, drink and feed. The structure of the storage area, the characteristics of the tanks, the equipment and the operating procedures must comply with the relevant legislation at European, national or local level. Storage facilities must be equipped with appropriate systems to prevent soil and water contamination in the event of leaks or spills. The cleaning, inspection and maintenance of the internal structure of the storage tanks must be carried out by qualified and properly equipped personnel, as established by national legislation, local or company regulations. Before accessing the storage tanks and starting any type of intervention in a confined space, make an adequate reclamation, check the atmosphere and check the oxygen content and the degree of flammability. Store separate from oxidizing agents. Suitable materials: use mild steel or stainless steel for containers and coatings. For the realization of containers or internal coverings, use approved and suitable material for the use of the product. Some synthetic materials may not be suitable for containers or coatings based on the characteristics of the material and intended uses. Check the compatibility of the materials with the manufacturer in relation to the conditions of use. If the product is supplied in containers, store only in the original container or in a container suitable for the type of product. Keep containers tightly closed and properly labeled. Empty containers may contain flammable product residues, which may result in a risk of fire or explosion. Open slowly to check for pressure releases. Do not weld, braze, puncture, cut or incinerate empty containers unless they have been properly cleaned up.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

ESP	España	INSST - Límites de exposición profesional para agentes químicos en España 2019					
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS					
EU	TLV-ACGIH	ACGIH 2019					
	RCP TLV	ACGIH TLVs and BEIs –					
		Appendix H					
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Third edition, published 2018)					
Hyd	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics						
Thre	Threshold Limit Value						

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	mg/m3	ppm	mg/m3	ppm			
	1200	197					
PNEC							
			NPI				
			NPI				
ient			NPI				
iment			NPI				
t release			NPI				
ms			NPI				
econdary poisonin	ıg)		NPI				
npartment			NPI				
			NPI				
Effects on	MEL			Effects on workers			
Acute local	Acute systemic	Chronic local	Chronic systemic	Chronic	Systemic acute	Chronic	Chronic systemic
			125 mg/kg	aouto	40410		- Systemic
			185 mg/m3				871 mg/m3
							8h 208 mg/kg
			bw/d				bw/d
Country			OTEL /4Emin				
Country							
ESD			-				
							-
							-
GDK	724		900				-
Effects on	MEL	50		Effects on			
Acute local	Acute systemic	Chronic local	Chronic	Acute	Systemic	Chronic	Chronic
2 mg/kg bw/d	2 mg/kg bw/d		systemic	local	acute	local	systemic
300 mg/m3	0. 0	35,7 mg/m3		600 mg/m3		300 mg/m3	
	6 mg/kg bw/d	, ,	6 mg/kg bw/d	0	11 mg/kg/d		11 mg/kg
							bw/d
PNEC							
			0,0032	mç	g/l		
			0,0032	mç	g/l		
ient			15,6	mç	g/kg/d		
t release			0,0032	mç	g/l		
			35	mį	g/l		
ms							
npartment			0,865	mç	g/kg/d		
	Acute local Country ESP FRA GBR Vel - DNEL / DI Effects on consumers Acute local 2 mg/kg bw/d 300 mg/m3 PNEC Effects	hent iment iment ir release ms econdary poisoning) npartment vel - DNEL / DMEL Effects on consumers Acute local Acute systemic Country TWA/8h mg/m3 ESP 724 FRA 710 GBR 724 FRA 710	hent iment iment iment it release ms accondary poisoning) npartment vei - DNEL / DMEL Effects on consumers Acute local Acute systemic Chronic local Country TWA/8h mg/m3 ppm ESP 724 150 FRA 710 150 GBR 724 150 FRA 710 150 GBR 724 150 FRA 710 50 Vei - DNEL / DMEL Effects on consumers Acute local Acute systemic Chronic local 2 mg/kg bw/d 2 mg/kg bw/d 300 mg/m3 6 mg/kg bw/d PNEC	NPI NPI nent NPI iment NPI iment NPI ms NPI accondary poisoning) NPI npartment NPI scondary poisoning) NPI npartment NPI scondary poisoning NPI ongertment NPI State local Acute systemic Acute local Acute systemic 125 mg/kg bw/d Gountry TWA/8h STEL/15min <tr< td=""><td>NPI NPI nent NPI iment NPI t release NPI ms NPI acondary poisoning) NPI npartment NPI telease NPI scondary poisoning) NPI npartment NPI teleflects on consumers Effects on workers Acute local Acute systemic Chronic local Acute local Acute systemic Chronic local 125 mg/kg bw/d acute bw/d 185 mg/m3 24h 125 mg/kg bw/d acute 126 mg/m3 ppm tso 150 965 2</td><td>NPInentNPIimentNPIt releaseNPImsNPIscondary poisoning)NPImsNPIacute localAcute systemicAcute localAcute systemicCountryTWA/8hSPStEL/15minESP724724150966200FRA7107105096620020150750150SystemicSystemic6 mg/rag bw/d200215Systemic200 mg/m396620015096620020150150Systemic201 mg/g bw/d11 mg/kg/d300 mg/m32 mg/kg bw/d2 mg/kg bw/d3 5,7 mg/m32 mg/kg bw/d6 mg/kg bw/dPNEC0,0032ment15,6mg/kg/d</td><td>NPI NPI nent NPI trelease NPI mest NPI scondary poisoning) NPI mest NPI scondary poisoning) NPI mpartment NPI scondary poisoning) Scondary poisoning scondary poisoning Chronic local scondary poisoning Chronic local scondary poisoning Scondary poisoning Scondary poisoning Scondary poisoning scondary poisoning Sconda</td></tr<>	NPI NPI nent NPI iment NPI t release NPI ms NPI acondary poisoning) NPI npartment NPI telease NPI scondary poisoning) NPI npartment NPI teleflects on consumers Effects on workers Acute local Acute systemic Chronic local Acute local Acute systemic Chronic local 125 mg/kg bw/d acute bw/d 185 mg/m3 24h 125 mg/kg bw/d acute 126 mg/m3 ppm tso 150 965 2	NPInentNPIimentNPIt releaseNPImsNPIscondary poisoning)NPImsNPIacute localAcute systemicAcute localAcute systemicCountryTWA/8hSPStEL/15minESP724724150966200FRA7107105096620020150750150SystemicSystemic6 mg/rag bw/d200215Systemic200 mg/m396620015096620020150150Systemic201 mg/g bw/d11 mg/kg/d300 mg/m32 mg/kg bw/d2 mg/kg bw/d3 5,7 mg/m32 mg/kg bw/d6 mg/kg bw/dPNEC0,0032ment15,6mg/kg/d	NPI NPI nent NPI trelease NPI mest NPI scondary poisoning) NPI mest NPI scondary poisoning) NPI mpartment NPI scondary poisoning) Scondary poisoning scondary poisoning Chronic local scondary poisoning Chronic local scondary poisoning Scondary poisoning Scondary poisoning Scondary poisoning scondary poisoning Sconda

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	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Systemic acute	Chronic local	Chronic systemic
Oral				1,3 mg/kg bw/d				
Inhalation				4,4 mg/m3				17,8 mg/m3
Skin				13 mg/kg bw/d				25,5 mg/kg bw/d

2-ethylanthraquinone

Threshold Limit Value Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
RCP TLV		10	197		

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following must be considered for the final choice of the work glove material: compatibility, degradation, break time and permeation. In the case of preparations, the resistance of work gloves to chemical agents must be checked before use as unpredictable. The gloves have a wear time that depends on the duration and the mode of use. Materials presumably suitable for gloves: nitrile, PVC or PVA (polyvinylacool) with an index of protection against chemical agents of at least 5 (permeation time> 240 minutes). Use gloves according to the conditions and limits set by the manufacturer. In this case, refer to the UNI EN 374 standard. The gloves must be periodically inspected and replaced in case of wear, perforation or contamination.

SKIN PROTECTION

Wear work clothes with long sleeves and safety footwear for professional use of category I (see Directive 89/686 / EEC and EN ISO 20344). Wash with soap and water after removing protective clothing.

Evaluate the opportunity to provide antistatic clothing in case the work environment presents a risk of explosiveness. In case of handling the product, use antistatic work clothes with long sleeves, in relation to the risks related to the classification of the work areas, if necessary, heat resistant and thermally insulated.

In case of contamination of the garments replace them and clean them immediately.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

Not necessary for normal use.

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

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If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Do not release into the environment. Storage facilities must be equipped with appropriate systems to prevent soil and water contamination in the event of leaks or spills. Prevent the release of undissolved substances or recover them from wastewater. Do not distribute the sludge generated by the treatment of industrial waters on natural soils. The sludge generated by the treatment of industrial waters must be incinerated, kept under containment or treated.

Other information. Minimize exposure to mists / vapors / aerosols. Before accessing the storage tanks and starting any kind of intervention in a confined space, perform an adequate reclamation, check the atmosphere and check the oxygen content and the degree of flammability.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Colour Odour Odour threshold pH Melting point / freezing point Initial boiling point Boiling range Flash point Evaporation rate	liquid colourless characteristic Not available Not available 120 °C 120-218 °C 32°C Not available
Flammability (solid, gas)	Not available
Lower inflammability limit	Not available
Upper inflammability limit	Not available
Lower explosive limit	Not applicable
Upper explosive limit	Not applicable
Vapour pressure	Not available
Vapour density	Not available
Relative density	0,87 Kg/lt
Solubility	immiscible with water
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Explosive properties	Not available
Oxidising properties	Not available
9.2. Other information	

VOC (Directive 2010/75/EC) : 98,80 % - 859,56 g/liter

SECTION 10. Stability and reactivity

10.1. Reactivity

g

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability

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The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Vapors can form explosive mixtures with air. Contact with strong oxidants (such as peroxides and chromates) can cause a fire hazard. A mixture with nitrates or other strong oxidants (such as chlorates, perchlorates and liquid oxygen) can generate an explosive mass. Sensitivity to heat, friction and shock can not be evaluated in advance.

N-BUTYL ACETATE

Risk of explosion on contact with: strong oxidising agents. May react dangerously with: alkaline hydroxides, potassium tert-butoxide. Forms explosive mixtures with: air.

10.4. Conditions to avoid

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

N-BUTYL ACETATE

Avoid exposure to: moisture, sources of heat, naked flames.

10.5. Incompatible materials

Information not available

10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

SECTION 11. Toxicological information

11.1. Information on toxicological effects

In the absence of experimental toxicological data on the product itself, the possible dangers of the product for health have been evaluated on the basis of the properties of the substances contained, according to the criteria provided for by the reference standard for classification. Consider therefore the concentration of the individual hazardous substances mentioned in section 3, to evaluate the toxicological effects deriving from exposure to the product.

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics.

Local effects. Product Information:

Contact with the skin. Symptoms: Redness. Repeated exposure may cause skin dryness or cracking. Eye contact: Contact with eyes may cause irritation. Inhalation: inhalation of vapors may cause drowsiness and dizziness. It can cause irritation. Inhalation of vapors can cause headaches, nausea, vomiting and alterations in the state of consciousness.

Ingestion: if accidentally ingested, the product may enter the lungs due to its low viscosity and cause the rapid development of severe lung lesions (keep under medical supervision for 48 hours). Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause depression in the central nervous system.

Other adverse effects

Vapor concentrations above recommended exposure levels are irritating to the eyes and the respiratory tract, may cause headache and dizziness, have an anesthetic effect and cause other effects on the central nervous system. Repeated and / or prolonged skin contact with low viscosity materials can degrease the skin with possible development of irritation and dermatitis. Small amounts of liquid, aspirated into the lungs if swallowed or vomited, may cause chemical pneumonitis or pulmonary edema.

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Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

The results show that these fluids are rapidly absorbed by inhalation or by ingestion and can be absorbed by the dermal route. In any case, they are metabolized and eliminated quickly. Bioaccumulation is not foreseeable. The aromatic components are metabolized faster than naphthenes, n-alkanes, isoalkanes and 1-alkenes. This substance has a low acute toxicity with an oral rat LD50 greater than 5000 mg / kg, a rabbit dermal LD50 greater than 2000 mg / kg and an inhaled rat LC50 above 5000 mg / l. No significant effects were observed. The substance is therefore not classified for acute toxicity according to European regulations on hazardous substances. The substance is classified as dangerous for the danger of aspiration into the lungs.

Metabolism, kinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

N-BUTYL ACETATE

WORKERS: inhalation; contact with the skin.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

N-BUTYL ACETATE

In humans, the substance's vapours cause irritation of the eyes and nose. In the event of repeated exposure, skin irritation, dermatitis (dryness and cracking of the skin) and keratitis appear.

Interactive effects

N-BUTYL ACETATE

A case of acute intoxication been reported involving a 33 year old worker while cleaning a tank with a preparation containing xylenes, butyl acetate and ethylene glycol acetate. The person had irritation of the conjunctiva and upper respiratory tract, drowsiness and motor coordination disorders, which disappeared within 5 hours. The symptoms are attributed to poisoning by mixed xylenes and butyl acetate, with a possible synergistic effect responsible for the neurological effects. Cases of vacuolar keratitis are reported in workers exposed to a mixture of butyl acetate and isobutanol vapours, but with uncertainty concerning the responsibility of a particular solvent (INRC, 2011).

ACUTE TOXICITY

LC50 (Inhalation) of the mixture: Not classified (no significant component) LD50 (Oral) of the mixture: Not classified (no significant component) LD50 (Dermal) of the mixture: Not classified (no significant component)

N-BUTYL ACETATE

LD50 (Oral) > 6400 mg/kg Rat

LD50 (Dermal) > 5000 mg/kg Rabbit

LC50 (Inhalation) 21,1 mg/l/4h Rat

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

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LD50 (Oral) > 5000 mg/kg

LD50 (Dermal) > 2000 mg/kg

LC50 (Inhalation) > 9300 mg/l/4h

bis (2-ethylhexyl) adipate LD50 (Oral) 24600 mg/kg rat LC50 (Inhalation) > 5,7 mg/l/4h rat

SKIN CORROSION / IRRITATION

Repeated exposure can cause skin dryness and cracking.

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics Repeated exposure may cause skin dryness or cracking. Slightly irritating to the skin in case of prolonged exposure.

bis (2-ethylhexyl) adipate Method: Read-across with similar substances or surrogates.

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

EYE CONTACT: May cause mild, short-term eye problems. Based on test data for structural materials similar to OECD 405 guidelines.

bis (2-ethylhexyl) adipate Method: Read-across with similar substances or surrogates.

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

Respiratory sensitization Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

It is assumed that it is not respiratory sensitizer.

bis (2-ethylhexyl) adipate Method: Read-across with similar substances or surrogates.

Skin sensitization Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics It is assumed that it is not a skin sensitizer to OECD 406 guidelines.

bis (2-ethylhexyl) adipate Method: Draize test. Intracutaneus test. Induction: intradermal. Challenge: intradermale. Guinea pig male. Method: Mallette and von Haam, 1952. Induction: no data challenge: no data. Rabbit. Method: models based on structure-activity relationships (QSAR) Result: non-sensitizer (weight of evidence).

GERM CELL MUTAGENICITY

Result: not irritant.

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Does not meet the classification criteria for this hazard class

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

The mutagenic potential of the substance has been extensively studied in a range of in-vivo and in-vitro analyzes. Genetic toxicity: negative. It is assumed that it is not a mutagenic germline agenete. Based on test data for materials of similar structure to OECD Guidelines 471 473 474 476 478 479.

bis (2-ethylhexyl) adipate

Based on the studies performed on the mutagenic potential the substance results to have a negative genetic toxicity.

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

This product is not classified as carcinogenic. It is assumed that it does not cause cancer. Based on test data for structural materials similar to OECD Guidelines 453.

bis (2-ethylhexyl) adipate NOAEL (carcinogenicity):> 25000 ppm (nominal) (male/female).

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

No information available. It is assumed that it is not a toxic agent for reproduction. Based on test data for structural materials similar to OECD Guidelines 414 421 422.

Harmful effects on sexual function and fertility

bis (2-ethylhexyl) adipate Method: equivalent or similar to OECD Guidelaine 415 (one- Generation Reproduction Toxicity Study). Oral: feed. Rat (Wistar) male / female. Results: NOAEL (P): ca. 170 mg / kg bw / day (nominal) (male / female) NOAEL (F1): approx. 170 mg / kg bw / day (nominal) (male / female)

Harmful effects on the development of offspring

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics The results of the substance studies related to developmental toxicity, dictated by the OECD guidelines and those of the screening studies in the same field, did not reveal tissue in the rats.

bis (2-ethylhexyl) adipate Method: equivalent or similar to OECD Guidelaine 414 (Prenatal Developmental Toxicity Study) (used to determine the limit dose). Oral: feed. Rat (Wistar) Results: NOAEL (mother toxicity): ca. 170 mg / kg bw / day (nominal) NOEL (foetotoxicity): 28 mg / kg bw / day (nominal) (male / female)

Effects on lactation or through breastfeeding

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics Lactation: it is assumed that it is not harmful to breast-fed infants.

STOT - SINGLE EXPOSURE

May cause drowsiness or dizziness

Neoplastic effects: without effect

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Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics Single exposure: May cause drowsiness and dizziness. This substance does not meet the EU classification criteria.

bis (2-ethylhexyl) adipate Not available

Target organ Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics Central nervous system

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Repeated exposure: it is assumed that it does not cause damage to organs following prolonged and repeated exposure. Based on test data for structural materials similar to OECD Guidelines 408 413 422. No known effects based on information provided.

Target organ Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Central nervous system

ASPIRATION HAZARD

Toxic for aspiration

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Fluid can enter the lungs and cause damage (chemical, potentially fatal pneumonia).

bis (2-ethylhexyl) adipate not relevant

SECTION 12. Ecological information

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics Use according to good working practices, avoiding to disperse the product in the environment. Notify the competent authorities if the product has reached watercourses or sewers or if it has contaminated the soil or vegetation. Hydrocarbons C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics (EC 919-857-5): Based on the ecological information given below and according to the criteria set by the regulations on hazardous substances, this substance is not classified dangerous for the environment.

12.1. Toxicity

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics Hydrocarbons C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics (EC 919-857-5): A summary of the most representative studies of the registration dossier is reported below. Aquatic toxicity: Endpoint: Invertebrates - Short term (Daphnia magna) Result: EL50 (48 h):> 1000 mg / L (mobility); EL50 (24 h):> 1000 mg / L (mobility) Comments: Key Study (C9-C11, <2% aromatics) - OECD Guideline 202 - SRC (1995) Endpoint: Invertebrates - Short term (Chaetogammarus marinus) Result: LL50 (48 h):> 1000 mg / L (mortality); LL50 (24 h):> 1000 mg / L (mortality) Comments: Key Study (C9-C11 <2% aromatics) OECD Guideline 202 - TNO (1992) Endpoints: Invertebrates - Long term (Daphnia magna) Result: NOELR (21 days): 0.23 mg / L (reproduction) Comments: Support study (C9-C11 <2% aromatics) (Q) SAR Modeled data - CONCAWE (2010)

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Endpoint: Algae (Pseudokirchnerella subcapitata) Growth inhibition						
Result: EC50 (72 h):> 1000 mg / L (Growth); EC50 (h): 100 mg / L (Growth) Comments: Key Study (C9-C11 <2% aromatics) OE	(72 h):> 1000 mg / L (biomass); NOELR (72 h): 3 mg / L (Cell number); NOELR (72					
Endpoint: Fish - Short term (Oncorhynchus mykiss)) mg / L; LL50 (48 h):> 1000 mg / L; LL0 (48 h): 1000 mg / L; LL50 (72):> 1000 mg / L; LL0 (72 h) mg /					
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics						
LC50 - for Fish	> 1000 mg/l/96h					
EC50 - for Crustacea	> 1000 mg/l/48h					
EC50 - for Algae / Aquatic Plants	> 1000 mg/l/72h					
bis (2-ethylhexyl) adipate						
LC50 - for Fish	> 0,78 mg/l/96h oncorhynchus mykiss					
EC50 – for Crustacea	> 500 mg/l/48h daphnia magna					
EC50 - for Algae / Aquatic Plants	> 500 mg/l/72h algae					
NOEC Cronich Crustacea	0,77 mg/l daphnia magna, fresh water, semi-static OECD Guideline 211					
12.2. Persistence and degradability						
degradation of the substance in the environment.						
N-BUTYL ACETATE						
Solubility in water	1000 - 10000 mg/l					
Rapidly degradable						
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics Entirely degradable						
bis (2-ethylhexyl) adipate						
Rapidly degradable						
12.3. Bioaccumulative potential						
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cycli Hydrocarbons C9-C11, n-alkanes, isoalkanes, cycli substances.	ics, < 2% aromatics ics, <2% aromatics (EC 919-857-5): The standard tests for this endpoint are not applicable to UVCB					
N-BUTYL ACETATE						
Partition coefficient: n-octanol/water	2,3					
BCF	15,3					

Revision nr. 6 MARBEC S.R.L. Dated 05/10/2020 Printed on 05/10/2020 0030380Duplex - ANTISTAIN Page n. 15/19 bis (2-ethylhexyl) adipate BCF 27 l/kg 12.4. Mobility in soil Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics Hydrocarbons C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics (EC 919-857-5): Absorption Koc: the standard tests for this endpoint are not applicable to substances UVCB. N-BUTYL ACETATE Partition coefficient: soil/water < 3 bis (2-ethylhexyl) adipate Partition coefficient: soil / water 4.687 l/ka 12.5. Results of PBT and vPvB assessment Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics Hydrocarbons C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics (EC 919-857-5): Comparison with the criteria of Annex XIII of the REACh Regulation

Assessment of persistence: some hydrocarbon structures contained in this substance have characteristics of P (Persistent) or vP (very Persistent).

Assessment of bioaccumulation potential: the structure of most of the hydrocarbons contained in this substance do NOT present characteristics of vB (very Bioaccumulative) however some components exhibit characteristics of B (Bioaccumulative).

Evaluation of toxicity: for the hydrocarbon structures that showed characteristics of P and B the toxicity was evaluated but none

relevant component meets the toxicity criteria with the exception of anthracene which has been confirmed as a PBT. Because anthracene is not present, the product is not considered PBT / vPvB.

Based on available data, the product does not contain PBT or vPvB substances in percentage $\geq 0.1\%$.

12.6. Other adverse effects

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Hydrocarbons C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics (EC 919-857-5): The dispersion in the environment can lead to the contamination of the environmental matrices

(air, soil, subsoil, surface and underground waters). Use according to good working practice, avoiding to disperse the products in the environment

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

14.1. UN number

ADR / RID, IMDG, 1993

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IATA:

14.2. UN proper shipping name

ADR / RID:	FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics, n-butyl
	acetate)
IMDG:	FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics, n-butyl
	acetate)
IATA:	FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics, n-butyl
	acetate)

14.3. Transport hazard class(es)

ADR / RID:	Class: 3	Label: 3	
IMDG:	Class: 3	Label: 3	
IATA:	Class: 3	Label: 3	

14.4. Packing group

ADR / RID, IMDG, III IATA:

14.5. Environmental hazards

ADR / RID:	NO
IMDG:	NO
IATA:	NO

14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 30 Special Provision: -	Limited Quantities: 5 L	Tunnel restriction code: (D/E)
IMDG:	EMS: F-E, <u>S-E</u>	Limited Quantities: 5 L	
IATA:	Cargo:	 quantity: 220 L	Packaging instructions: 366
	Pass.:	Maximum quantity: 60 L	Packaging instructions: 355
	Special Instructions:	A3	

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

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SECTION 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EC: P5c

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product Point

3 - 40

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent dangerous to health must be subjected to health surveillance carried out in accordance with the provisions of art. 41 of Legislative Decree 81 of 9 April 2008 unless the risk to the safety and health of the worker has been assessed as irrelevant, in accordance with the provisions of art. 224 paragraph 2.

15.2. Chemical safety assessment

A chemical safety assessment has been developed for the following substances in the mixture:

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2%, aromatics bis (2-ethylhexyl) adipate, n-butyl acetate.

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Liq. 3	Flammable liquid, category 3
Asp. Tox. 1	Aspiration hazard, category 1
STOT SE 3	Specific target organ toxicity - single exposure, category 3
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.

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H336 EUH066 May cause drowsiness or dizziness.

Repeated exposure may cause skin dryness or cracking.

LEGEND:

ADR: European Agreement concerning the carriage of Dangerous goods by Road

- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule

GHS: Globally Harmonized System of classification and labeling of chemicals

- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).
- GENERAL BIBLIOGRAPHY
- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament 7.
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
 The Merck Index. 10th Edition
 Handling Chemical Safety

- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website

Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses. Provide appointed staff with adequate training on how to use chemical products.

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METHODS OF CALCULATING THE CLASSIFICATION

Physico-chemical hazards: The classification of the product was derived from the criteria established by the CLP Regulation Annex I Part 2. The methods for assessing the physico-chemical properties are reported in section 9. Health hazards: The classification of the product is based on the calculation methods set out in Annex I of CLP Part 3, unless otherwise indicated in

section 11.

Environmental hazards: The classification of the product is based on the calculation methods set out in Annex I of CLP Part 4, unless otherwise indicated in section 12.

Changes to previous review:

The following sections were modified:

01/ 02 /03 / 07 / 08.